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FEB 12 1951

MEMORANDUM FOR: Deputy Director (Administration)

FROM: Assistant Director for Special Operations

SUBJECT: Communications Requirements

REFERENCE: Memorandum dated 21 January 1951 to ADSO from D/DCI(A)
Subject: Communications Training

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1. The detailed requirements for the location of a communications training school at are forwarded herewith. These requirements are integrated with the emergency communications station requirements which are now in the process of being implemented. Many of the requirements for each of the activities are the same or are combined.

2. It is planned that the course of instruction to be taught at the school will include basic communications subjects in radio operation and theory, maintenance of teletype and power equipment and cryptography. Each student will spend approximately six months at the school learning these general subjects. A further outline of each course of instruction is contained in Attachment A.

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3. The facilities which are required to accommodate a student body of one hundred and an instructor staff of fifteen will necessitate some construction at the location. The on the site, although usable for certain types of instruction, is not considered satisfactory for the teletype and power equipment maintenance course because of floor loading, noise and fire hazard factors. For this course a separate building located away from other buildings is required. It would also appear that due to general architectural features, the would be more suitable for the housing and recreational facility requirements for as many of the staff and/or student body personnel as it would accommodate. Therefore, in addition to the preparation of a space allocation diagram utilizing the space of the for training purposes, an alternate space allocation diagram based on new construction has also been prepared. These space diagrams plus the other requirements for the training activity and signal center functions are as follows:

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a. Training Space

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Attachment B is a diagram of the space allocations for the and a diagram of the power and teletype equipment building. The total space requirement for this plan is 8525 square feet.

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Attachment C is a diagram of the space allocation for new construction. The total space requirement for this plan is 8000 square feet, including office and stockroom space. This training space is sufficient to train one hundred students on a one schedule per day basis. It would be adequate to train double that number on a two schedule basis, provided sufficient housing and messing facilities can be made available.

b. Vault Space Requirements

A vault for the storage of classified communications materials to be used in connection with both the training school and the secondary signal center activity is required. For security and efficiency reasons this vault should be preferably attached to the signal center stable location where the classified information necessary for the operation of the signal center will be more readily available. The vault specifications are contained in Attachment D.

c. Living Quarters

Living quarters should be provided to house and mess one hundred trainees, a staff of fifteen instructors and five communications technicians. The living quarters space should be separate from the training space. The permanent staff should be provided with private and relatively more comfortable quarters. Living quarters for male students are required with provision for the possible modification of these quarters for female use in the event of the emergency activation of the signal center. Living quarters for dependents are not required.

d. Recreation Facilities

An outside recreation field would be desirable for baseball, volley ball, basketball and tennis.

An interior recreation area would also be desirable. This can be combined with a study room and a training films projection room.

e. Buried Fuel Tanks

Several tanks for fuel storage will be required. These tanks will be used for storage of fuel to be used by training and for emergency power equipment for the signal center. Detailed specifications and placement of these tanks will be coordinated with the architect engineer by the Communications Division representative on the site.

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f. Incinerator

Incinerator facilities should be provided for the school activity. It should be located near or in the signal center. Specifications for the incinerator should be determined by I & SS.

g. Transportation

Transportation should be provided for trainees to and from Washington. Two automobiles and one station wagon should be permanently assigned to the area for use in connection with the possible operation of the secondary signal center and the training functions.

h. Parking Area

A parking area should be provided for staff and trainee private and official vehicles.

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i. Signal Center Enclosure

Subject to concurrence of I & SS, the signal center should be enclosed in a fence within the [] site. This enclosure, in addition to the enclosure planned for the whole area, is considered essential to limit access to the signal center area where sensitive materials will be stored and where classified work will be performed in connection with the keeping of the secondary signal center information up to date.

4. A communications officer is being assigned at the site to provide the resident manager with additional detailed information for the above requirements.

5. Subject to the completion of the above and the provision for housing and messing facilities, the Communications Training Branch is prepared to begin the training of twenty-five students in the area any time after 1 April. Additional classes will begin thereafter, concurrently with the acceleration of the recruiting program. Instructors will be made available as needed to meet the student load.

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ATTACHMENT A

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Following are the courses to be employed in the training of provisionally cleared personnel at the

RADIO COURSE

I Radio Operating

- a. Code Reception Practice
- b. Code Sending Practice
- c. Teletype Keyboard and Perforator Practice
- d. Typing
- e. Procedure
- f. Operating Room

II Radio Theory

- a. Fundamentals of Electricity and Radio
- b. Power Supplies and A.F. Amplifiers
- c. Transmitters
- d. Receivers
- e. Wave Propagation and Antennas

III Radio Laboratory

TELETYPE MAINTENANCE COURSE

I Basic Teletype Maintenance

II Advanced Teletype Maintenance

POWER EQUIPMENT MAINTENANCE

I Gasoline Engine Generators

II Diesel Engine Generators

BASIC CRYPTOGRAPHY COURSE

I Basic Cryptography

II Paraphrasing, Message Drafting and Processing

III Communications Security

IV Cryptanalysis

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